



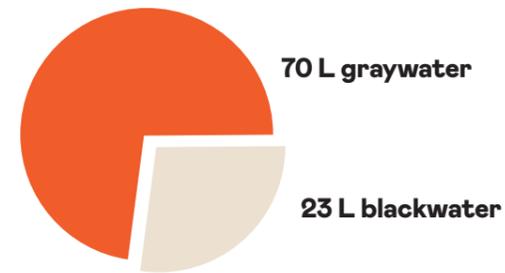
Wastewater. Heat. Recovery.

revincus - wastewater heat recovery in
residential and industrial buildings.

 **revincus**

Wastewater - from waste to usable resource.

Wastewater p.p. daily



150 Mio. kWh
30 Mio. €
67 Mio. kg CO₂

Energy demand, CO₂ emissions & costs for domestic hot water production in Germany daily.

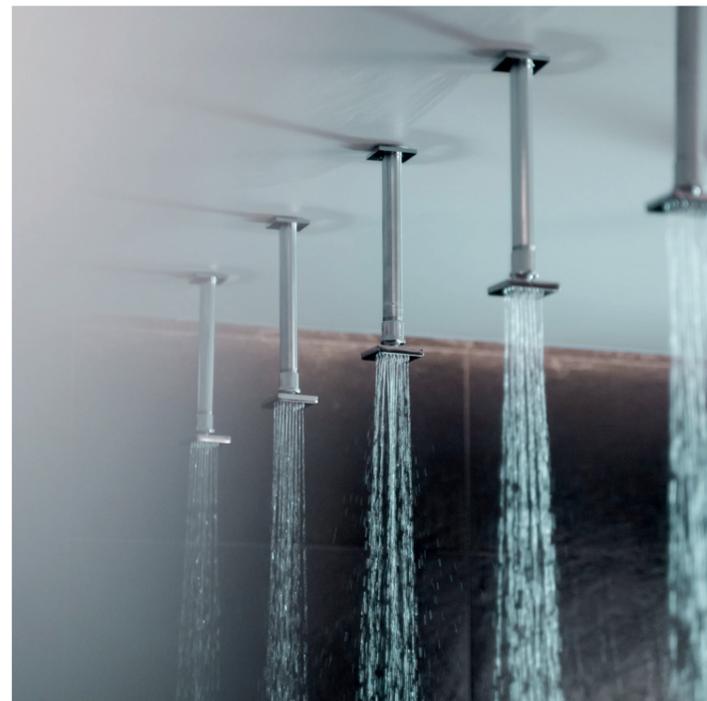


The 21st century is characterized by the pressing goals of reducing energy consumption and CO₂ emissions by increasing the use of renewable energy sources. The aim of CO₂ neutrality in building industry, especially in residential constructions, brings new challenges that need to be mastered through technological innovations. A main component is the use of existing energy potential to reduce energy consumption.

Heat recovery from wastewater offers a considerable potential. In Germany, around 150 million kWh of energy are required every day to heat drinking water, thus producing costs of 30 million euros and 67 thousand tons of CO₂.

In the field of decentralized wastewater heat recovery for residential buildings, innovation, alternative approaches and transformative ways of thinking are essential. Technical products of global relevance must be developed sustainably, integrated seamlessly into existing systems, and designed to make economic sense.

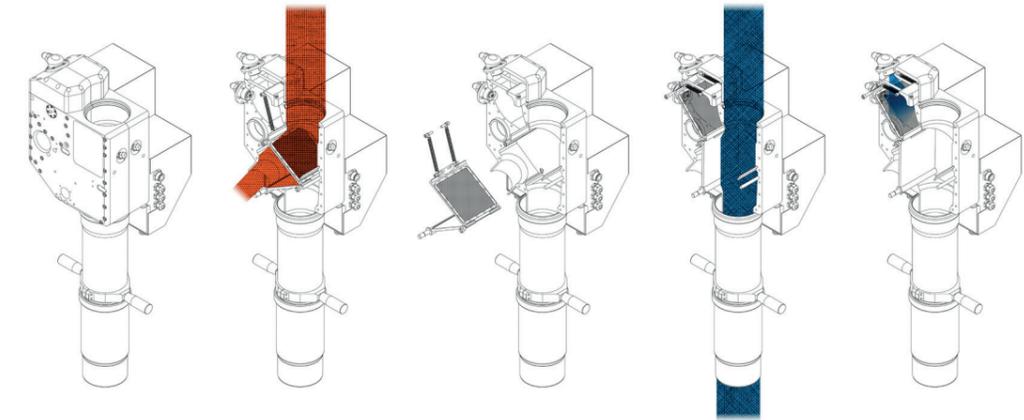
The revincus GmbH has met this challenge and is specialized in developing products for the economical and sustainable use of heat from wastewater.



Around 60% of Germans take a shower every day, using an average of 44 liters water.

ABW-K2 Waste water switch

Separation of gray and black water from combined sewage line



The wastewater diverter separates gray- and blackwater from a combined wastewater line. Graywater (orange) is discharged laterally, the blackwater (blue) falls through the diverter. To clean the graywater, a filter is connected upstream and then backwashed.

The ABW-K2 wastewater diverter is specially designed for downstream separation between gray- and blackwater from a mixing line.

Graywater, which mainly comes from showers, washing machines and dishwashers and does not contain any fecal impurities, is well suited for heat recovery and treatment into surface water.

In existing buildings, the reuse of graywater is made difficult by the lack of separate pipe routing. The wastewater diverter solves this problem, by a downstream separation at the end of a downcomer.

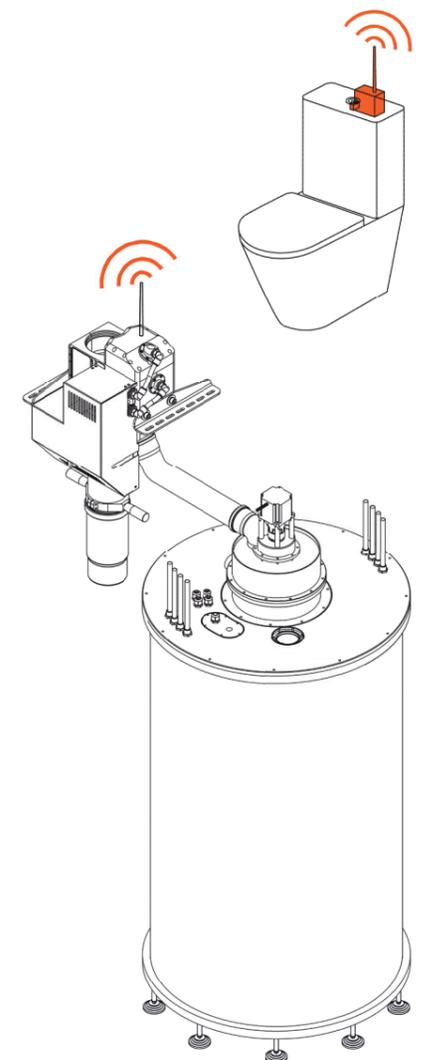
A controlled flap separates the two wastewaters from each other. In the normal condition, the graywater is discharged laterally and filtered by a stainless steel mesh. In the blackwater position, the wastewater falls unhindered through the diverter. In the course of the position change, the filter is there-

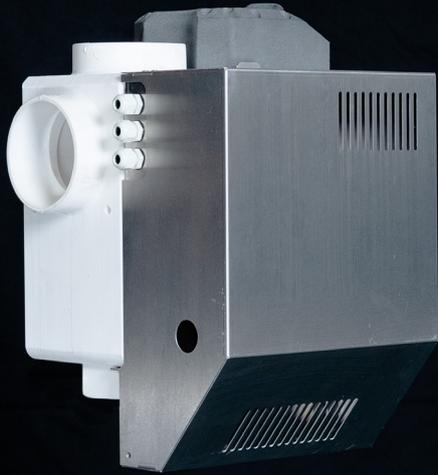
by stripped by a rubber lip and backwashed.

A wireless pushbutton, which is installed in each cistern of a toilet, informs the control system of the time of a toilet flush. At this moment, the wastewater diverter switches to blackwater position and the fecal contaminated wastewater falls through the diverter.

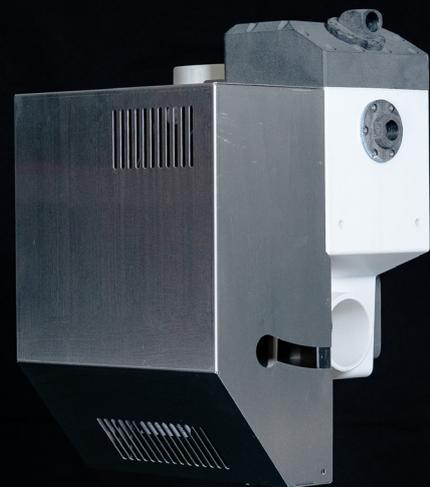
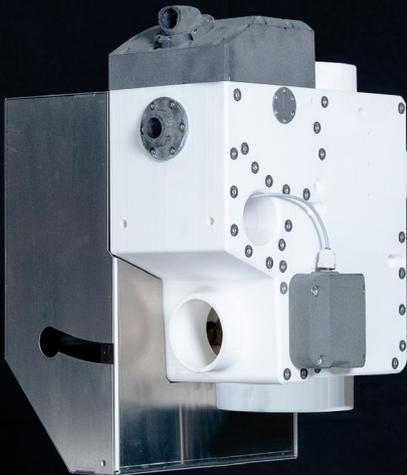
The blackwater goes directly into the sewer system. The graywater, on the other hand, can be used for heat recovery with the ABW-PSW.

The wastewater diverter ABW-K2 enables graywater to be reused without having to carry it in a separate line in the building. An energetic modernization through wastewater heat recovery can thus be implemented without line renovation.





designation	height	width	depth	drain connection	greywater connection	blackwater connection	overflow connection
ABW-K2	445 mm	320 mm	330 mm	DN110	DN75	DN110	DN110



revincus - your expert for waste-water heat recovery in residential and industrial buildings

Planning, design, production, realization, advice on conveyance possibilities and special production



revincus GmbH
Löbdergraben 28
07743 Jena

Tel. 03643 4699816
info@revincus.com
www.revincus.com